Global Knowledge ™

Angular Development

Duration: 3 Days Course Code: ANGDEV Delivery Method: Virtual Learning

Overview:

The Angular Development course focuses on using modern Angular to develop Single-Page Applications (SPAs). This course teaches the use of Angular directives and expressions in HTML5 documents,and the writing of Angular components and services to build complete SPAs
This course covers Angular from Version 2 upwards,currently delivered using Version 7. TypeScript is used as the primary language and Microsoft Visual Studio Code together with Google Chrome as the development environment.
Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

The Angular Development course is aimed at front-end developers and engineers using Angular,HTML5 and TypeScript along with modern assistive technologies such as Node.js and Git,to develop quality software. Programmers,designers,testers,quality analysts and anyone who needs a good understanding of the use of Angular within web development would also benefit.

Objectives:

■ This course aims to provide the delegate with the knowledge to be able to construct an Angular SPA that neatly separates presentation from business logic concerns and exploits all core elements of the framework including: components,form validation,dependency injection,property binding,event handling,services,and routing.

Prerequisites:

Substantial prior experience with HTML,CSS,and JavaScript. This knowledge can be obtained by attendance on the pre-requisite HTML & CSS and JavaScript 1 courses.

Follow-on-Courses:
■ HTML5 & CSS3 with JavaScript (H5CSS3)
■ JavaScript 2 (JS2)
■ Bootstrap (BOOTS)
■ PHP Programming (PHP)

Content:

Angular Development Training Course   Course Contents - DAY 1

Course Introduction

- Administration and Course Materials
- Course Structure and Agenda
- Delegate and Trainer Introductions

Session 1: ANGULAR PRECURSORS

- Single-Page Applications (SPAs)
- ES6
- Transpilers
- Polyfills
- TypeScript

Session 2: INTRODUCING ANGULAR

- What is Angular?
- The Development Environment
- A Simple Application
- Angular Architecture

Session 3: ANGULAR TEMPLATES

- Interpolation
- Event Binding
- Pipes
- Built-in Directives

Session 4: DEPENDENCY INJECTION

- What is Dependency Injection?
- Services
- NgModule
- @Injectable
- Provider Registration   Angular Development Training Course   Course Contents - DAY 2

Session 5: ANGULAR FORMS

- Form Modules
- Template-driven Forms
- Reactive Forms

Session 6: HTTP INTERACTIONS

- HTTP Modules
- Making Requests
- HTTP Options
- Rejections and Wrapping
- Interceptors
- Using Promises

Session 7: ROUTING

- Routing Components
- Routing Configuration
- Route Parameters
- Optional Parameters
- Child Routing
- Route Access Control (Guards)
  Angular Development Training Course Course Contents - DAY 3

Session 8: OBSERVABLES ; REACTIVE PROGRAMMING

- What is Reactive Programming?
- RxJS
- Creating and Consuming Observables
- Differences between Observables and Promises
- Inter-component Communications

Session 9: ANGULAR ; REDUX

- What is Flux?
- What is Redux?
- Actions
- Creators
- Reducers
- The Store
- Data Flow
- ngrx
- Redux Dev Tools

Session 10: TESTING ANGULAR APPLICATIONS

- Using Jasmine
- Using Karma
- Angular Testing Framework
- Angular Test Bed
- Testing Components,HTTP Services,Routes
- E2E Testing

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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